

Carbon-based Power Capacitor Specifications



	18650T-013-25	
Nominal capacity (discharged with standard profile <1C) \pm 5%	1,25	Ah
Nominal energy (discharging @1C till cut-off)	3,12	Wh
Nominal voltage	2,50	V
Recommended cut-off voltage @ 1C	1,70	V
Max. recommended charging voltage **	2,70	V
Rated capacity (discharging 50% max current till cut-off voltage)	1,15	Ah
Rated energy (discharged 50% max. current until the cut-off voltage) (cell)	2,40	Wh
Max. C-rate charging *** (cell)	12	C
Max. C-rate discharging *** (cell)	20	C
Max. continuous charging current *** (cell)	15,0	A
Max. continuous discharging current *** (cell)	25,0	A
Max. sustained power capability *** (cell)	3,90625	W
Ohmic Resistance Ri (@50% SoC)	\leq 17	m Ω
Gravimetric energy density (cells) (@1C)	80,0	Wh/kg
Volumetric energy density (cells) (@1C)	175	Wh/dm ³
Gravimetric power density (cells) @ max. C-rate	1.603	W/kg
Cycles life at 25°C	> 20.000	cycles
Dimensions of cell	18,6 \varnothing x 65,5H	mm
Recommended transportation voltage	2,40	V
Recommended storage voltage	2,40	V
Operation temperature	-40 to +80	°C
Storage temperature	-5 to +35	°C
Retained energy after 28 days at 25°C	95	%
Short circuit temperature	< 150	°C
Weight of cells	39	g
Guarantee period (manufacturing)	12	months
Fire Hazardous substances: Cells do not pose a fire or explosion risk.		

* Custom designed. Specifications might deviate.

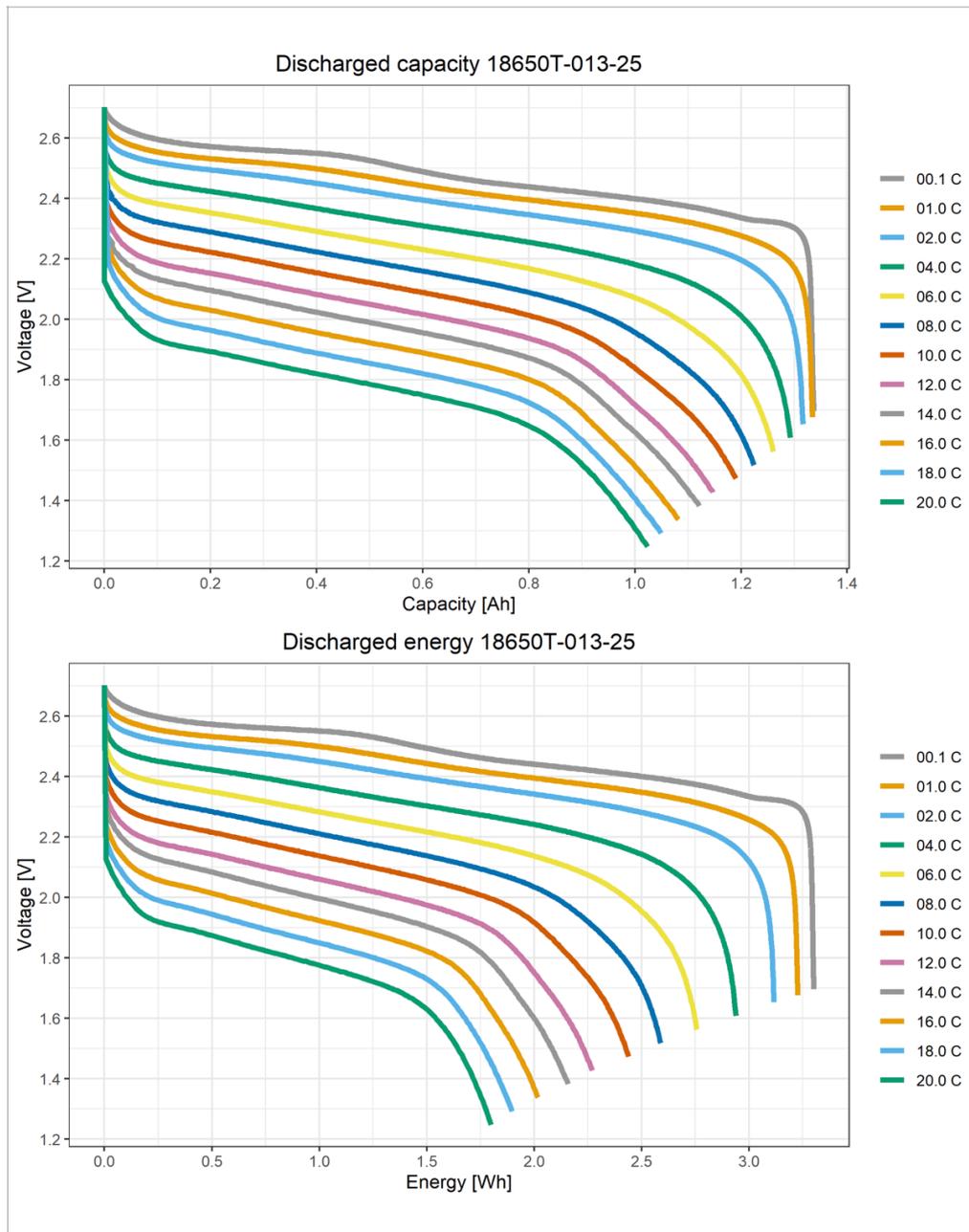
** Cell damage possible outside these margins

*** Max. C-rating of powerpack is limited by selected cable and connector parameters and can be lower than theoretical maximum derived from cell parameters.

C-rates can be higher than maximum for a short duration. Contact Altreonic case by case.

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Graphs as tested on a specific cell



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